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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,420	03/23/2004	Dong-yun Shin	Q79712	2277

23373 7590 06/17/2008
SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, DC 20037

EXAMINER

RIYAMI, ABDULLA A

ART UNIT	PAPER NUMBER
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2616

MAIL DATE	DELIVERY MODE
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06/17/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/806,420	Applicant(s) SHIN ET AL.	
	Examiner ABDULLAH RIYAMI	Art Unit 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 May 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This is in response to an amendment/response file on 05/05/2008. Claims 1 and 10 have been amended. No new claims have been added. No claims have been cancelled. Claims 1-16 remain pending in the application.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Venkitaraman et al. (US 2003/0161287 B2).

As per claim 1, Venkitaraman et al. discloses a wireless local area network system (see figure 1), comprising: a gateway (see figure 1, block 124) performing functions of a home agent in a mobile wireless communication environment (see paragraph 25, 36 and figure 1) and sending prefix information (see paragraph 25, 36 and figure 1); and one or more access points (see figure 1, router 112, 118), each access point allocating an Internet Protocol (IP) address to a mobile host in a management range thereof by using the prefix information of the gateway (see

paragraph 43), wherein each access point produces and sends a Binding Update list (see paragraph 43) corresponding to the mobile host to the gateway (see paragraph 43), wherein when said mobile host moves into a range of a different access point, said mobile host retains the prefix information of the gateway (see paragraphs 45, 51, and 52 and figure 9, binding update, subnet prefix).

As per claim 2, Venkitaraman et al. discloses a wireless local area network system (see figure 1), wherein when a packet is sent from a correspondent node to the mobile host the gateway encapsulates a header portion of the packet with a source address and a destination address (see paragraph 36, figures 1-10), and an access point corresponding to the destination address decapsulates the encapsulated packet sent from the gateway (see paragraph 36, figures 1-10).

As per claim 3, Venkitaraman et al. discloses a wireless local area network system (see figure 1), wherein when a packet is sent from the mobile host to a correspondent node (see paragraph 36, figures 1-10), the access point defining the management range of the mobile host encapsulates a header portion of the packet with a source address and a destination address (see paragraph 36, figures 1-10) and sends the encapsulated packet (see paragraph 36, figures 1-10).

As per claim 4, Venkitaraman et al. discloses a wireless local area network system (see figure 1), wherein the gateway (see figure 1) manages one or more access routers (see figure 1), each access router manages one or more access points (see paragraph 36, figures 1-10), and each access point manages one or more mobile hosts (see paragraph 19).

As per claim 5, Venkitaraman et al. discloses a wireless local area network system (see figure 1), wherein the IP addresses for the mobile hosts have the same prefix information (see figure 1).

As per claim 6, Venkitaraman et al. discloses a wireless local area network system (see figure 1), wherein the IP addresses for an access point serves as a Care-of Address (CoA) for each mobile host within the management range of the access point (see figure 1).

As per claim 7, Venkitaraman et al. discloses a wireless local area network system (see figure 1), wherein each access point includes: an IP address generation unit (see paragraph 43, paragraph 25, 36 and figure 1) for generating the IP address for the mobile host in the management range of the access point by combining the prefix information and a MAC address of the mobile host (see paragraph 43); a binding cache for storing information (see paragraph 43) on the generated IP address and corresponding mobile host (see paragraph 43, figure 1-10); and a Binding Update (BU) transmission unit (see paragraph 43) for sending to the gateway the produced Binding Update list for the mobile host (see paragraph 43).

As per claim 8, Venkitaraman et al. discloses a wireless local area network system (see figure 1), wherein each access point further includes a decapsulation unit (see figure 1-10, paragraphs 36, 38, 40) for decapsulating a source address and a destination address that are encapsulated with a header portion of a packet sent from a correspondent node unit (see figure 1-10, paragraphs 36, 38, 40).

As per claim 9, Venkitaraman et al. discloses a wireless local area network system (see figure 1-10, paragraphs 36, 38, 40), wherein each access point further includes an encapsulation unit (see figure 1-10, paragraphs 36, 38, 40) for encapsulating a header portion of a packet to be sent to a correspondent node with a source address and a destination address (see figure 1-10, paragraphs 36, 38, 40).

As per claim 10, Venkitaraman et al. discloses an operation method for a wireless local area network system (see figure 1), comprising: sending prefix information of a gateway according to a request of a mobile host wherein the gateway (see figure 1) performs functions of a home agent in a mobile wireless communication environment ((see paragraph 25, 36 and figure 1); and allocating an Internet Protocol (IP) address to the mobile host by using the prefix information (see paragraph 43); associating the mobile host with an access point having a management range within which the mobile host is located (see paragraph 43); producing a Binding Update list for the associated mobile host (see paragraph 43); and sending the Binding Update list to the gateway (see paragraph 43), wherein when said mobile host moves into a range of a different access point, said mobile host retains the prefix information of the gateway (see paragraphs 45, 51, and 52 and figure 9, binding update, subnet prefix).

As per claim 11, Venkitaraman et al. discloses an operation method for a wireless local area network system (see figure 1), comprising when a packet is sent from a correspondent node to the mobile host (see paragraph 36, figures 1-10), encapsulating a header portion of the packet at the gateway with a source address and a destination address (see paragraph 36, figures 1-10) and sending the encapsulated

packet; and decapsulating (see paragraph 36, figures 1-10) a header portion from the encapsulated packet sent from the gateway (see paragraph 36, figures 1-10).

As per claim 12, Venkitaraman et al. discloses an operation method for a wireless local area network system (see figure 1), comprising when a packet (see paragraph 36, figures 1-10) is sent from the mobile host to a correspondent node (see paragraph 36, figures 1-10), encapsulating a header portion of the packet at the access point with a source address and a destination address and sending the encapsulated packet (see paragraph 36, figures 1-10).

As per claim 13, Venkitaraman et al. discloses an operation method for a wireless local area network system (see figure 1), wherein the gateway (see figure 1) manages one or more access routers (see figure 1), each access router manages one or more access points (see figure 1), and each access point manages one or more mobile hosts (see figure 1).

As per claim 14, Venkitaraman et al. discloses an operation method for a wireless local area network system, wherein the IP addresses for the mobile hosts have the same prefix information (see figure 1).

As per claim 15, Venkitaraman et al. discloses an operation method for a wireless local area network system (see figure 1), wherein the IP addresses for an access point serves as a Care-of Address (CoA) for each mobile host (see figure 1) within the management range of the access point.

As per claim 16, Venkitaraman et al. discloses an operation method for a wireless local area network system (see paragraph 43), wherein the mobile host

association operation (see paragraph 43) includes: generating the IP address for the mobile host (see paragraph 43) in the management range of the access point by combining the prefix information and a MAC address of the mobile host (see paragraph 43); storing information on the generated IP address and the corresponding mobile host (see paragraph 43 figures 1-10); producing a Binding Update list (see paragraph 43) of the associated mobile host; and sending to the gateway the produced Binding Update list for the mobile host (see paragraph 43).

Response to Arguments

2. Applicant's arguments with respect to claims 1-16, have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See form 892.

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ABDULLAH RIYAMI whose telephone number is (571)270-3119. The examiner can normally be reached on Monday through Thursday 8am-5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D. Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Abdullah Riyami/

Examiner, Art Unit 2616

/Huy D. Vu/

Supervisory Patent Examiner, Art Unit 2616